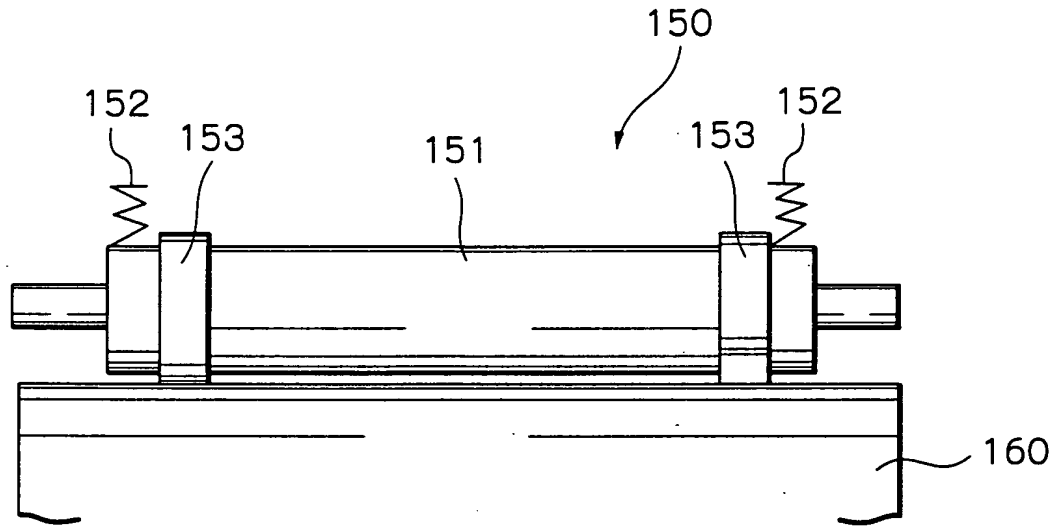
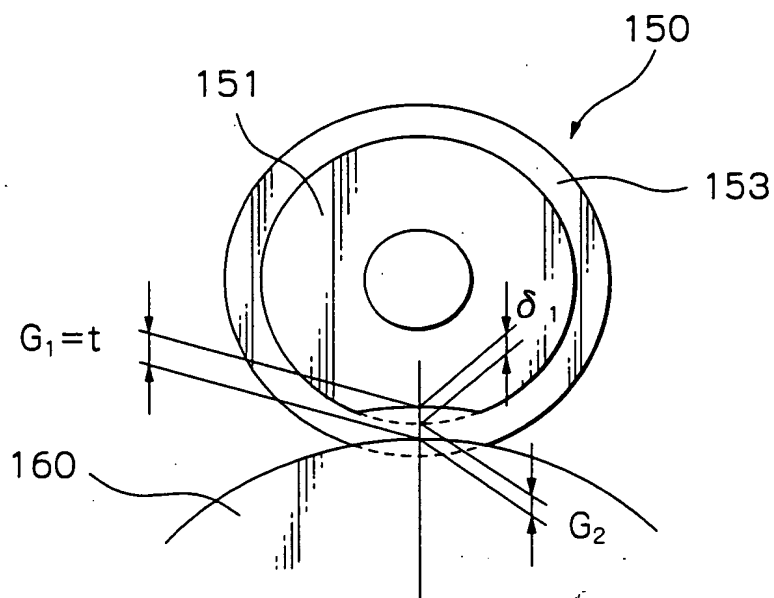


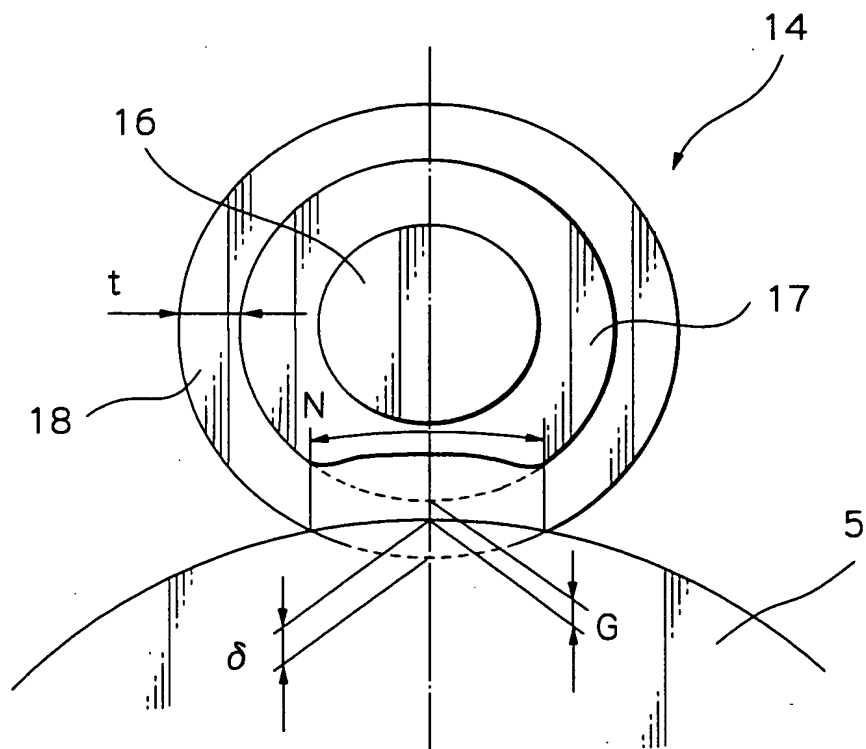
*Fig. 1* PRIOR ART



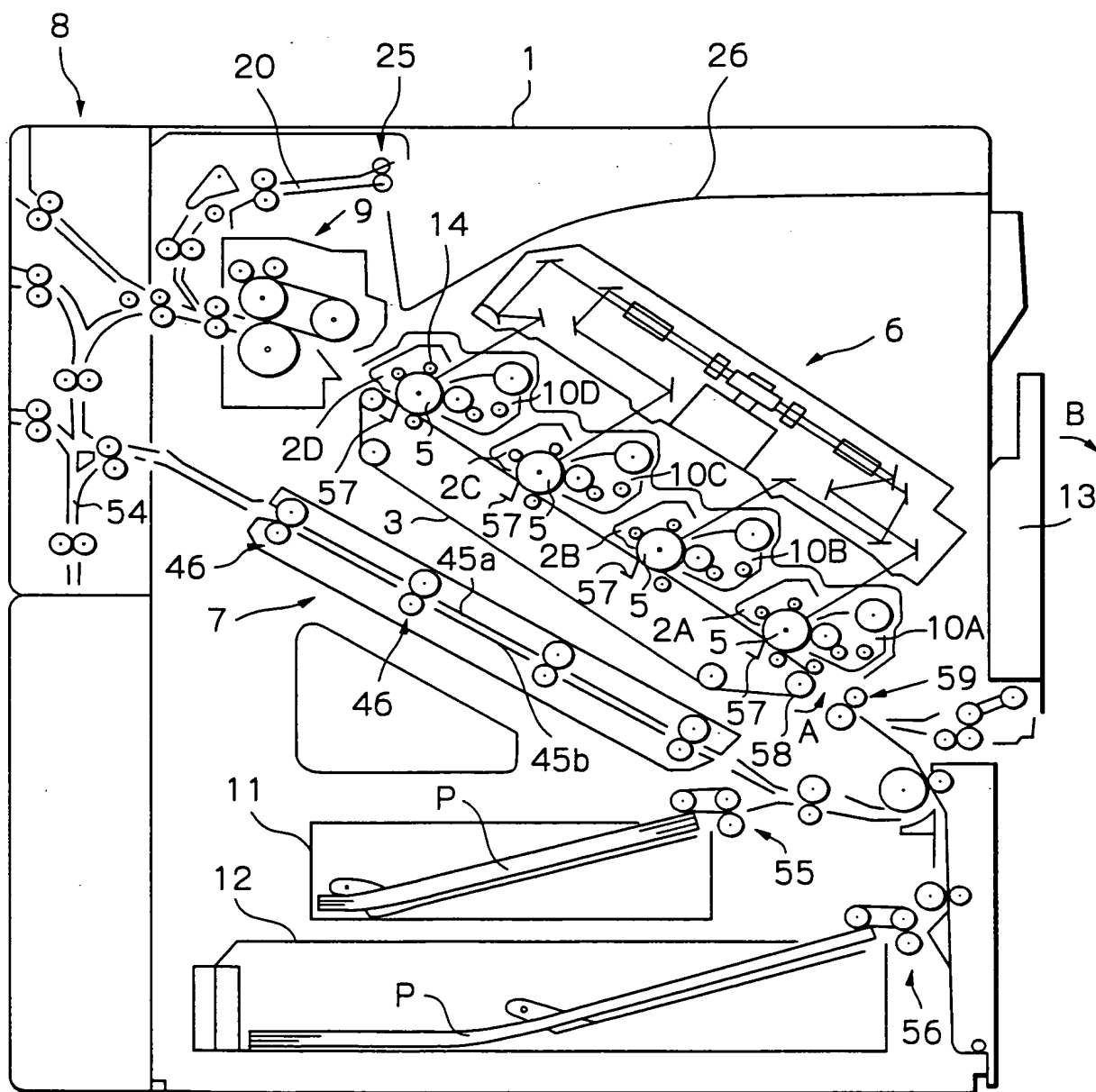
*Fig. 2* PRIOR ART



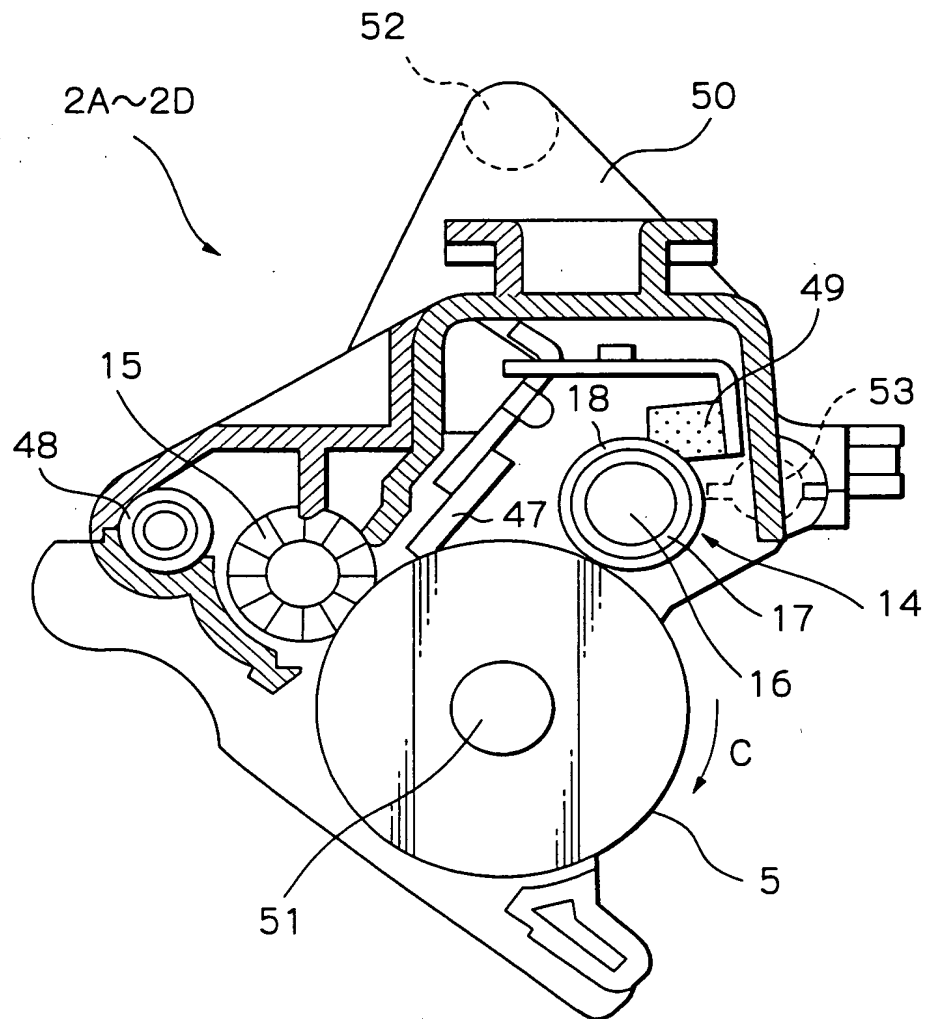
*Fig. 3*



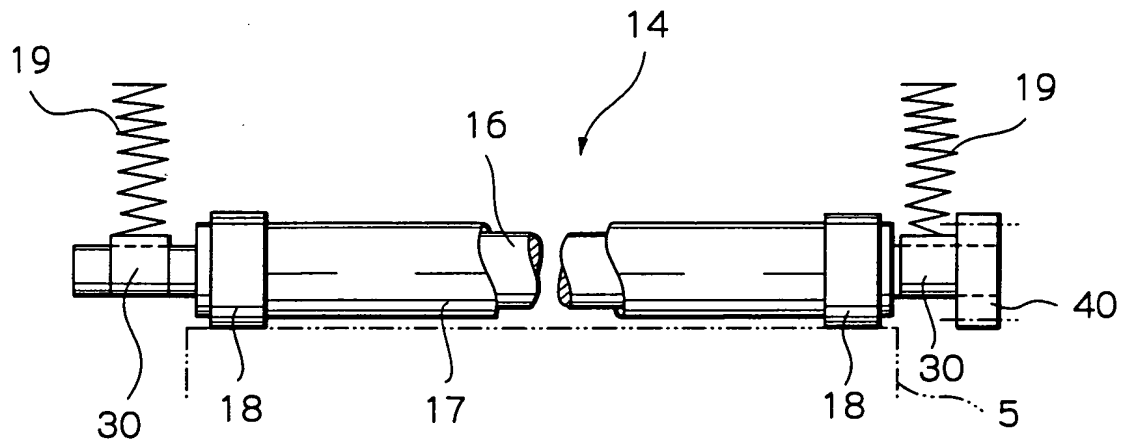
*Fig. 4*



*Fig. 5*



*Fig. 6*



*Fig. 7*

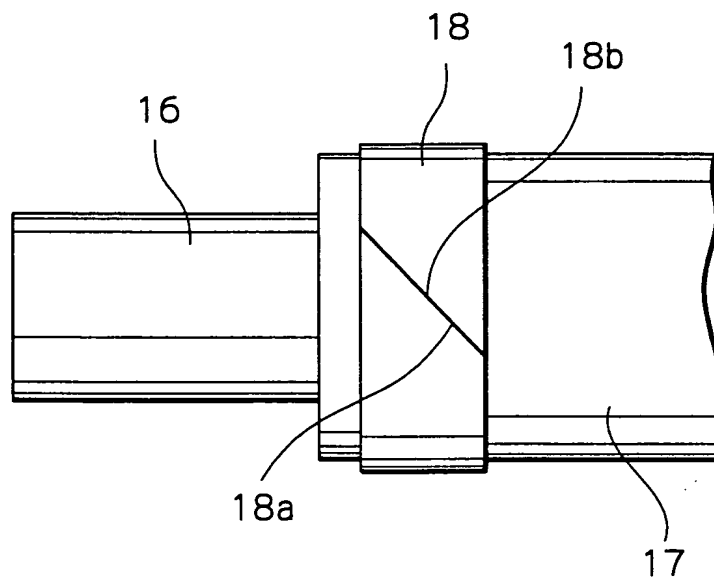
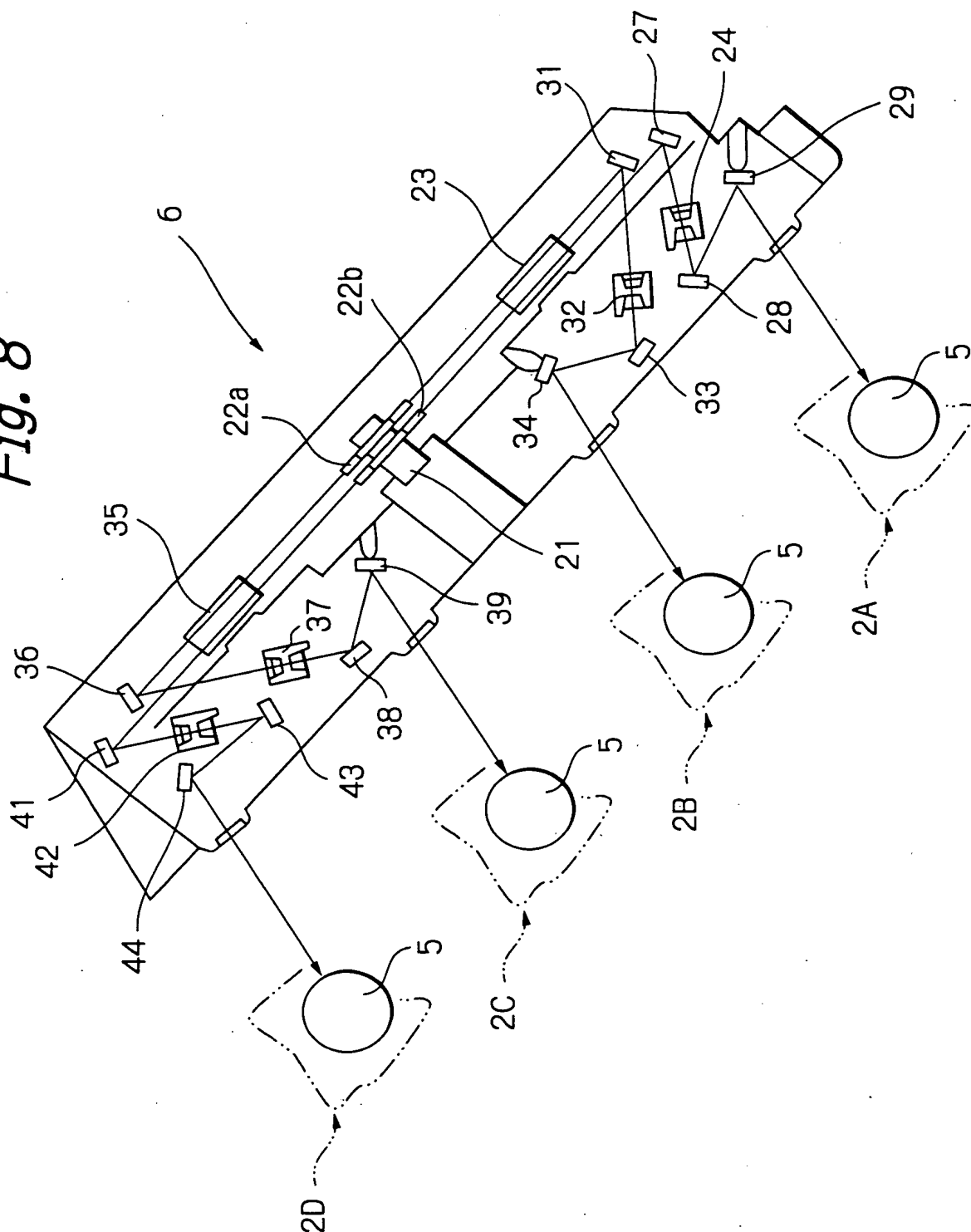


Fig. 8



*Fig. 9*

CHARGE ROLLER	CORE	RUBBER THICKNESS	ROLLER HARDNESS	FILM	FILM THICKNESS	FILM WIDTH
SAMPLE # 1	$\phi$ 9	1.5 mm	75	PF025-H	60 $\mu$ m	8 mm
SAMPLE # 2	$\phi$ 8	2 mm	65	PF050-H	85 $\mu$ m	8 mm
SAMPLE # 3	$\phi$ 8	3 mm	60	ABSENT; CONTACT	-	-
SAMPLE # 4	$\phi$ 8	3 mm	60	PF075-H	105 $\mu$ m	8 mm
SAMPLE # 5	$\phi$ 8	3 mm	60	PF075-H	100 $\mu$ m	8 mm

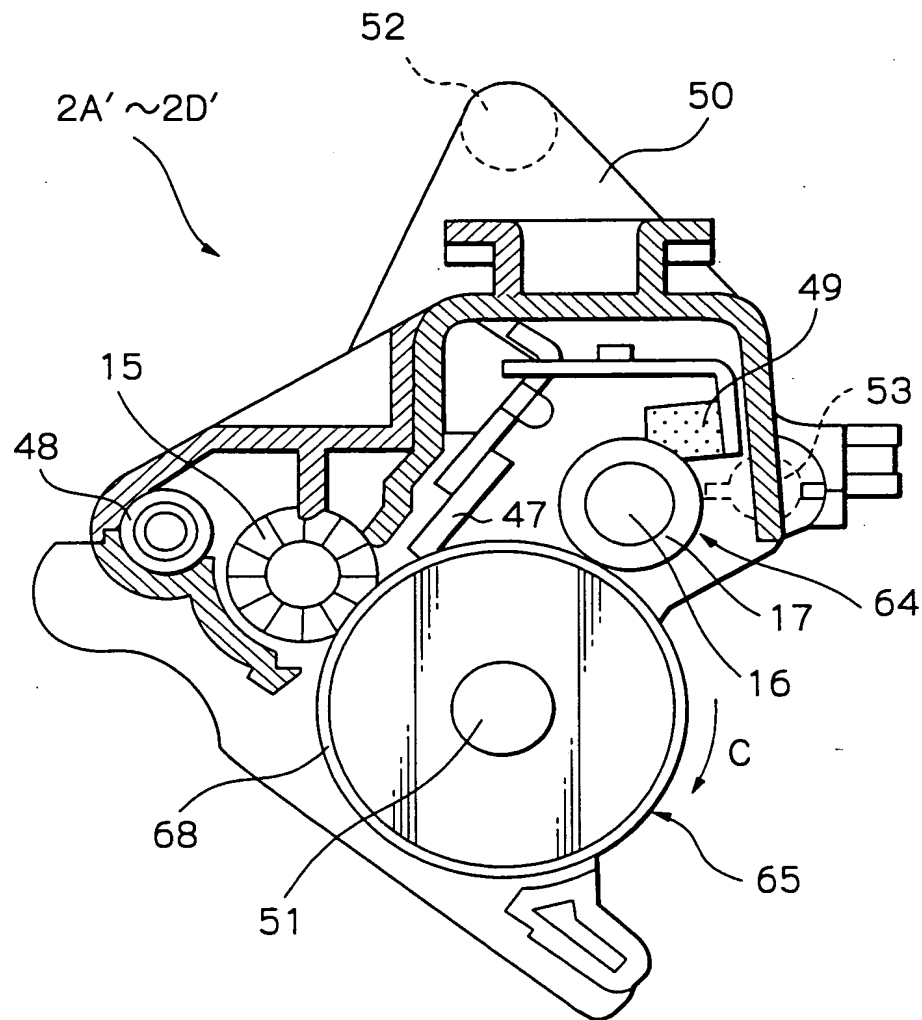
*Fig. 10*

CHARGE ROLLER	DEFORMATION	NIP WIDTH	INITIAL CHARGING ABILITY	LONG-TERM CHARGING ABILITY	INITIAL CHARGING NOISE
SAMPLE # 1	20 $\mu$ m	1 mm	○	○	○
SAMPLE # 2	40 $\mu$ m	1.4 mm	○	○	○
SAMPLE # 3	-	-	○	×	×
SAMPLE # 4	60 $\mu$ m	1.7 mm	×	○	○
SAMPLE # 5	60 $\mu$ m	1.7 mm	○	○	○

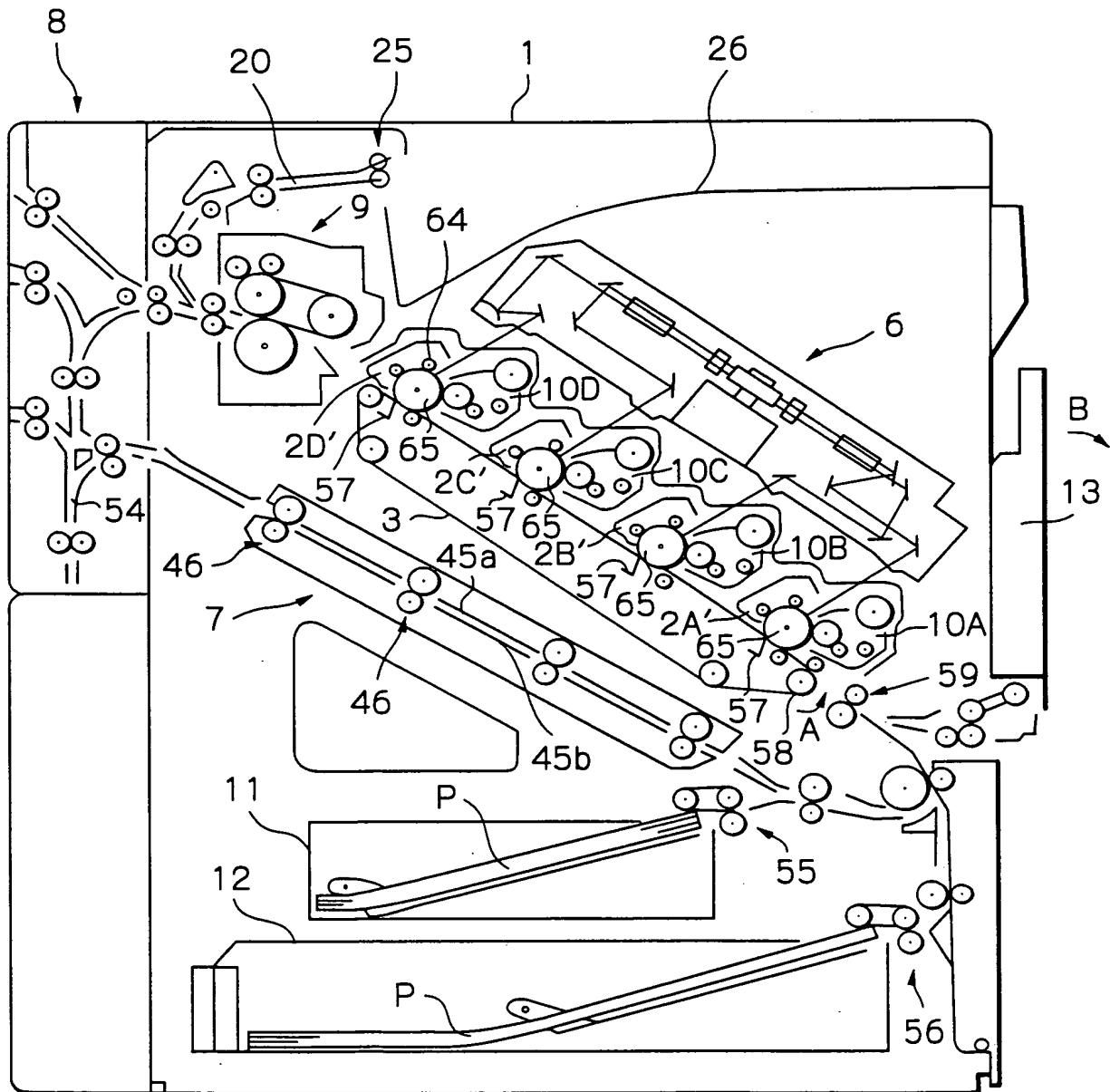




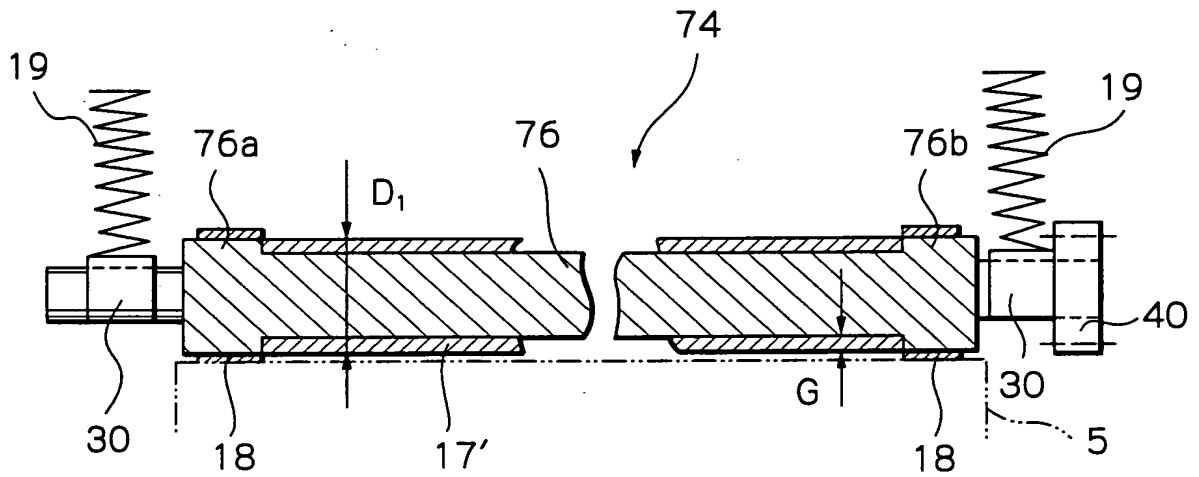
*Fig. 13*



*Fig. 14*



*Fig. 15*



*Fig. 16*

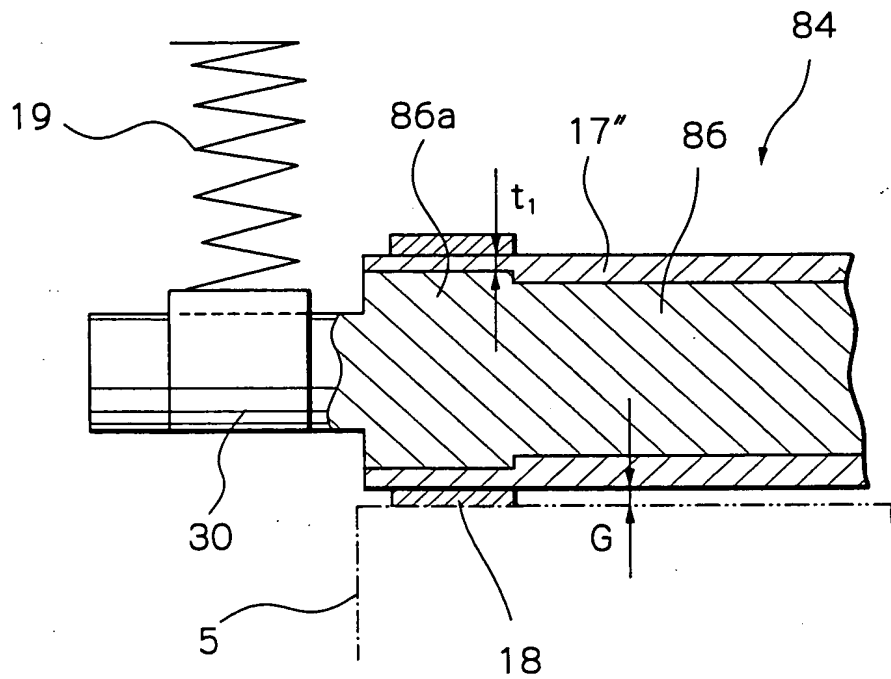


Fig. 17

